

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-10. (Canceled)

11. (Currently Amended) A plasma generating electrode comprising:

two or more electrodes disposed to face each other, each of the electrodes having both a fixed end portion and a free end portion;

holding members for holding the electrodes at a predetermined interval, and capable of generating plasma by applying voltage between the electrodes; and

a connection terminal for electrical connection to the fixed end portions of the electrodes, wherein a main component of the connection terminal is metal having a thermal expansion of coefficient of 7×10^{-6} (l/K) at 0 to 600°C or less;

wherein at least one of the electrodes facing each other has a plate-shaped ceramic body serving as a dielectric body and a conductive film disposed inside the ceramic body, and body,

the holding members fix the fixed end portions of the electrodes facing each other in the state of a cantilever in such a condition that the electrodes are held by the holding members in the state of cantilevers of the different directions alternately at a predetermined interval as a whole.whole, and

the holding members have a large number of first groove portions to insert the free end portions opposite to the fixed end portions of the electrodes therein with a predetermined gap on each surface opposing to the free end portions.

12. (Canceled)

13. (Currently Amended) A plasma generating electrode according to Claim 12,

Claim 11, wherein the holding members each comprises a unitary first comb-shaped member

having the first grooves as comb teeth and a unitary second comb-shaped member having a second grooves as comb teeth, the first comb-shaped member and the second comb-shaped member having shapes complementary to each other; the free end portions of the electrodes are inserted into the first grooves of the first comb-shaped member; and the fixed end portions of the electrodes are fixed to the second grooves of the second comb-shaped member in the state of a cantilever.

14. (Previously Presented) A plasma generating electrode according to Claim 13, wherein each of the fixed end portions of the electrodes is fixed, with an adhesive agent, to each of the second grooves of the second comb-shaped member in the state of a cantilever.

15-16. (Canceled)

17. (Previously Presented) A plasma generating electrode according to Claim 11, wherein the connection terminal is connected to the fixed end portions of the electrodes by welding, brazing, or diffusion bonding.

18. (Canceled)

19. (Previously Presented) A plasma generating electrode according to Claim 11, wherein the connection terminal is formed by plating of a conductive layer on the fixed end portions of the electrodes.

20. (Currently Amended) A plasma reactor comprising a plasma generating electrode comprising:

two or more electrodes disposed to face each other, each of the electrodes having both a fixed end portion and a free end portion, holding members for holding the electrodes at a predetermined interval, capable of generating plasma by applying voltage between the electrodes, and a honeycomb structure having a plurality of cells separated by partition walls and disposed on upstream side of the plasma generating electrode in the passage of a case body, the honeycomb structure having a cell density of 15 to 186 cells/cm²;

wherein at least one of the electrodes facing each other has a plate-shaped ceramic body serving as a dielectric body and a conductive film disposed inside the ceramic body, and

the holding members fix the fixed end portions of the electrodes facing each other in the state of a cantilever in such a condition that the electrodes are held by the holding members in the state of cantilevers of the different directions alternately at a predetermined interval as a whole and the case body having a passage of gas containing a predetermined component, and being capable of making the predetermined component contained in the gas react with plasma generated by the plasma generating electrode when the gas is introduced into the case body, and

the holding members have a large number of first groove portions to insert the free end portions opposite to the fixed end portions of the electrodes therein with a predetermined gap on each surface opposing to the free end portions.

21. (Canceled)